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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/870,584	06/01/2001	Frank W. Sudia	P 264493 AUTH-II	9326

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EXAMINER

KLIMACH, PAULA W

ART UNIT	PAPER NUMBER
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2135

DATE MAILED: 05/05/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	09/870,584	SUDIA ET AL.	
	Examiner	Art Unit	
	Paula W. Klimach	2135	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
 - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
 - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 05 July 2005.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1,18-21,72-84 and 109-131 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1,18-21,72-84 and 109-131 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| Paper No(s)/Mail Date <u>06/09/04</u> | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Response to Amendment

This office action is in response to amendment filed on 02/17/06. The amendment filed on 02/17/06 have been entered and made of record.

Response to Arguments

Applicant's arguments filed 07/05/05 have been fully considered but they are not persuasive because of following reasons.

The applicant argued that Muftic fails to disclose teach or suggest denying access to a certification authority's public key, digitally signing said at least one message, by which said recipient agrees to rules, and in response to a digital signing, permitting a recipient to utilize said public key as recited in claim 1. This is not found persuasive. Muftic discloses verifying the identity of the entity to which the certificate is being provided in sections column 10 lines 34-49 and further in column 6 lines 47-64 and Fig. 11 with its corresponding description wherein during the process of certification the request for the certificated is verified for authenticity. The concept of verifying the authenticity of the request is by definition denying access to the public key for the request that is not authentic for use by the processor that creates the request that is not authentic. The applicant argued further that the applicant fails to understand how the "general public" does not have access to the keys. In the case the certification authority that is higher in authority verifies and authorizes the request before providing the certification authority that is lower in the hierarchy with the certificate and therefore the public key for use. This indicates

that the general public does not have the public key; only those that can create a authentic request have the public key for use.

The applicant argued further that the language “denying access to a certification authority’s public key and in response to a digital signing by the recipient permits a recipient to utilize the public ...” should be given patentable weight. This is found persuasive. However, that arguments above about denying access, still apply.

Accordingly, rejections for claims 1, 18-21, and 72-84 are respectfully maintained.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

Claims 1, 21, 72-73, 77-78, 116-120, and 129-130 are rejected under 35 U.S.C. 102(e) as being anticipated by Muftic (US 5,745,574).

Claims 1 and 73: Muftic's patent discloses certifying authority issues digital certificate identifying users of the system in (Fig. 26). Muftic discloses digital certificates being digitally signed with a private key of certifying authority to form a digital signature and requiring a public key of certifying authority in order to verify digital signature in (column 14, lines 54-63). Muftic discloses a user transaction in a cryptographic system requires verification by a recipient of user transaction verification based on information in digital certificates and requiring the public key in (column 10 lines 34-49). Muftic discloses denying access to public key in (column 4 lines 65-67; column 5 lines 1-2; column 10 lines 34-49 and further in column 6 lines 47-64 and Fig. 11 with its corresponding description). Muftic discloses providing recipient with at least one message containing the rules of the system including a rule regarding maintaining secrecy of public key in (column 10 lines 52-57). Muftic discloses digitally signing by recipient at least one message which recipient agrees to rules and permitting recipient to utilize public key in (column 11 lines 29-53; column 12 lines 32-40).

Claims 21 and 72: Muftic discloses user transaction is invalid until digital signing is performed in (column 12 lines 22-43).

Claim 77: Muftic discloses user transaction of said recipient in the system is invalid until said digital signing is performed (column 12 lines 30-35).

Claim 78: Muftic discloses responding to said signing by said recipient, a certifying authority accepting a transaction from said recipient, said transaction based on a user transaction of said recipient in the system (column 10 lines 45-57).

Claim 116: wherein the public key becomes inactive after a certain time period, the system further comprising: after the public key becomes inactive, in response to a demonstration by the recipient of agreement or consistency with one or more of the rules, activating the inactive public key (Fig 13 and corresponding description).

Claim 117: wherein said demonstration includes information identifying operational capabilities of a secure device and further including information uniquely binding said recipient to said demonstration by the recipient of agreement or consistency with one or more of the rules (column 10 lines 45-57).

Claim 118 wherein the public key is certified by an authority (column 5 lines 20-40).

Claims 119 and 130: wherein said permitting comprises making the public key available by providing access to an inaccessible public key (Fig. 10).

Claim 120 and 129: further comprising: a certifying authority accepting a transaction from the recipient, the transaction based on a transaction of the recipient in the cryptographic system, after demonstration by the recipient of agreement or consistency with one or more of the rules (column 6 lines 1-5 and column 10 lines 50-57).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 18, 20, 74, 79-80, 83-84, 92-93, 109-115, 121-125, 127-128, and 131 are rejected under 35 U.S.C. 103(a) as being unpatentable over Muftic (5,745,574) in view of Curry (5,940,510).

Claims 18 and 74: Muftic does not specifically disclose providing recipient with a secure device containing public key, wherein public key cannot be obtained from secure device. Curry's patent discloses secure device containing public key, wherein public key cannot be obtained from secure device (column 4 lines 49-55). It would have been obvious to a person of ordinary skill in the art at the time the invention was made to employ a secure device containing public key wherein public key cannot be obtained from secure device as taught in Curry with public key storage of Muftic in so that the key can be protected and secured at all times against tampering/malicious attacks thus providing secure means to conduct transactions by the users.

Claim 20: Muftic discloses containing rules of system including a rule regarding maintaining secrecy of public key. Muftic does not include a rule to pay for use by said recipient of intellectual property provided through the system. Curry teaches the monetary value of the recipient is decreased (paying) for use of the system when information is matched (rule, column 7 lines 21-35). It would have been obvious to a person of ordinary skill in the art at the time the

invention was made to include a rule to pay as taught in Curry to the system in Muftic in order to provide recipient's privileges and conveniences for the use of the system.

Claim 79: Muftic's patent discloses certifying authority issues digital certificate identifying users of the system in (Fig. 26). Muftic discloses providing a recipient with a message containing rules of said system (column 10 lines 52-57). This system disclosed by Muftic includes an inactive form of said public key (column 15 lines 32-36 in combination with column 12 lines 60-64). In response to said recipient digitally signing said message, activating said public key in said secure device (column 15 lines 36-43).

Muftic does not specifically disclose providing recipient with a secure device containing public key, wherein public key cannot be obtained from secure device. Curry's patent discloses secure device containing public key, wherein public key cannot be obtained from secure device (column 4 lines 49-55). It would have been obvious to a person of ordinary skill in the art at the time the invention was made to employ a secure device containing public key wherein public key cannot be obtained from secure device as taught in Curry with public key storage of Muftic in so that the key can be protected and secured at all times against tampering/malicious attacks thus providing secure means to conduct transactions by the users.

Claim 80: Muftic discloses a public key that is a public key of a certifying authority, said providing is performed by a certifying authority (column 10 lines 35-57), said digitally signing comprises hashing said message to obtain a hashed document, digitally signing said hashed document to form a digital agreement (column 12 lines 54-56), and returning said digital agreement to said certifying authority, and said activating is performed by said certifying authority (column 12 lines 7-21).

Claims 83 and 92: Muftic discloses user transaction of said recipient in the system is invalid until said digital signing is performed (column 12 lines 30-35).

Claims 84 and 93: Muftic discloses responding to said signing by said recipient, a certifying authority accepting a transaction from said recipient, said transaction based on a user transaction of said recipient in the system (column 10 lines 45-57 in combination with column 11 lines 60-65).

Claim 109: where, in the cryptographic system, a certifying authority issues digital certificates identifying participants of the cryptographic system (Fig. 3), the digital certificates being digitally signed with a private key of the certifying authority to form a digital signature (part 320 Fig. 3) and requiring a public key of the certifying authority in order to verify the digital signature (column 6 line 65 to column 7 line 20), and a participant transaction requires verification by a recipient of the participant transaction, the verification based on information in a digital certificate and requiring the public key (column 5 lines 5-12).

Claim 110: wherein the public key in the secure device becomes inactive after a certain time period, the method further comprising:
after the public key becomes inactive, in response to a demonstration by the recipient of agreement or consistency with one or more of the rules, activating the inactive public key in the secure device (Fig. 13 and column 10 lines 50-57).

Claim 111: wherein said demonstration includes information from the secure device identifying operational capabilities of the secure device and further including information uniquely binding said recipient to said demonstration by the recipient of agreement or consistency with one or more of the rules (10 lines 45-50).

Claim 112: wherein the public key is certified by an authority (column 5 lines 20-40).

Claim 113: further comprising: a certifying authority accepting a transaction from the recipient, the transaction based on a transaction of the recipient in the cryptographic system, after demonstration by the recipient of agreement or consistency with one or more of the rules (column 6 lines 1-5 and column 10 lines 50-57).

Claim 114 wherein the rules comprise a rule regarding maintaining secrecy of the public key (column 10 lines 50-57).

Claim 115: wherein said activating comprises activating said public key in said secure device in response to a predetermined transaction with said secure device, said predetermined transaction including information from the secure device identifying operational capabilities of the secure device and uniquely identifying said secure device and further including information uniquely binding said recipient to said predetermined transaction ().

Claim 121 wherein said permitting comprises: in response to a predetermined transaction with a device, activating said public key in said secure device, said predetermined transaction including information from the secure device identifying operational capabilities of the secure device and uniquely identifying said secure device and further including information uniquely binding said recipient to said predetermined transaction, wherein said public key cannot be obtained from said device (Fig 13).

Muftic does not specifically disclose providing recipient with a secure device containing public key, wherein public key cannot be obtained from secure device. Curry's patent discloses secure device containing public key, wherein public key cannot be obtained from secure device (column 4 lines 49-55). It would have been obvious to a person of ordinary skill in the art at the

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time the invention was made to employ a secure device containing public key wherein public key cannot be obtained from secure device as taught in Curry with public key storage of Muftic in so that the key can be protected and secured at all times against tampering/malicious attacks thus providing secure means to conduct transactions by the users.

Claim 122: wherein a device contains an inactive form of said public key and said permitting comprises activating said inactive public key in said (Fig. 13).

Muftic does not specifically disclose providing recipient with a secure device containing public key, wherein public key cannot be obtained from secure device. Curry's patent discloses secure device containing public key, wherein public key cannot be obtained from secure device (column 4 lines 49-55). It would have been obvious to a person of ordinary skill in the art at the time the invention was made to employ a secure device containing public key wherein public key cannot be obtained from secure device as taught in Curry with public key storage of Muftic in so that the key can be protected and secured at all times against tampering/malicious attacks thus providing secure means to conduct transactions by the users.

Claim 123: wherein said permitting comprises transferring said public key to said device.

Muftic does not specifically disclose providing recipient with a secure device containing public key, wherein public key cannot be obtained from secure device. Curry's patent discloses secure device containing public key, wherein public key cannot be obtained from secure device (column 4 lines 49-55). It would have been obvious to a person of ordinary skill in the art at the time the invention was made to employ a secure device containing public key wherein public key cannot be obtained from secure device as taught in Curry with public key storage of Muftic in so

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that the key can be protected and secured at all times against tampering/malicious attacks thus providing secure means to conduct transactions by the users.

Claim 124: wherein said public key is provided in a secure device.

Muftic does not specifically disclose providing recipient with a secure device containing public key, wherein public key cannot be obtained from secure device. Curry's patent discloses secure device containing public key, wherein public key cannot be obtained from secure device (column 4 lines 49-55). It would have been obvious to a person of ordinary skill in the art at the time the invention was made to employ a secure device containing public key wherein public key cannot be obtained from secure device as taught in Curry with public key storage of Muftic in so that the key can be protected and secured at all times against tampering/malicious attacks thus providing secure means to conduct transactions by the users.

Claim 125 method further comprising: after said public key becomes inactive, in response to a demonstration by the recipient of agreement or consistency with one or more of the rules, activating said inactive public key in said secure device (Fig. 13).

Claim 127: said permitting comprises transferring the public key to a secure device, wherein the public key cannot be obtained from the secure device.

Muftic does not specifically disclose providing recipient with a secure device containing public key, wherein public key cannot be obtained from secure device. Curry's patent discloses secure device containing public key, wherein public key cannot be obtained from secure device (column 4 lines 49-55). It would have been obvious to a person of ordinary skill in the art at the time the invention was made to employ a secure device containing public key wherein public key cannot be obtained from secure device as taught in Curry with public key storage of Muftic in so

that the key can be protected and secured at all times against tampering/malicious attacks thus providing secure means to conduct transactions by the users.

Claim 128: where, in the cryptographic system, a certifying authority issues digital certificates identifying participants of the cryptographic system, the digital certificates being digitally signed with a private key of the certifying authority to form a digital signature and requiring a public key of the certifying authority in order to verify the digital signature, and a participant transaction requires verification by a recipient of the participant transaction, the verification based on information in a digital certificate and requiring the public key (Fig. 7 and column 6 lines 1-10).

Muftic does not specifically disclose providing recipient with a secure device containing public key, wherein public key cannot be obtained from secure device. Curry's patent discloses secure device containing public key, wherein public key cannot be obtained from secure device (column 4 lines 49-55). It would have been obvious to a person of ordinary skill in the art at the time the invention was made to employ a secure device containing public key wherein public key cannot be obtained from secure device as taught in Curry with public key storage of Muftic in so that the key can be protected and secured at all times against tampering/malicious attacks thus providing secure means to conduct transactions by the users.

Claim 131 wherein said permitting comprises: in response to a predetermined transaction with a device, activating said public key in said secure device, said predetermined transaction including information from the device identifying operational capabilities of the secure device and uniquely identifying said device and further including information uniquely binding said

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recipient to said predetermined transaction, wherein said public key cannot be obtained from said secure device.

Claim 126 is rejected under 35 U.S.C. 103(a) as being unpatentable over Muftic and Curry as applied to claim 125 above, and further in view of Ryder (4,953,209).

Claim 126: wherein further including information uniquely binding said recipient to said demonstration by the recipient agreement or consistency with one or more of the rules.

Muftic does not specifically disclose providing recipient with a secure device containing public key, wherein public key cannot be obtained from secure device. Curry's patent discloses secure device containing public key, wherein public key cannot be obtained from secure device (column 4 lines 49-55). It would have been obvious to a person of ordinary skill in the art at the time the invention was made to employ a secure device containing public key wherein public key cannot be obtained from secure device as taught in Curry with public key storage of Muftic in so that the key can be protected and secured at all times against tampering/malicious attacks thus providing secure means to conduct transactions by the users.

Although Muftic discloses policies or rules and authorization privileges Muftic does not expressly disclose the demonstration including information identifying operational capabilities of the device.

Ryder teaches demonstration includes information identifying operational capabilities of the device (column 5 and column 3 lines 56-62).

At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to confirm that use has received the object agreed upon and agree on the terms and

conditions as in Ryder in the system of Muftic. One of ordinary skill in the art would have been motivated to do this because it would remove the need for documents that are normally require registered and signed receipt mail delivery.

Allowable Subject Matter

Claims 19, 75-76, and 81-82 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

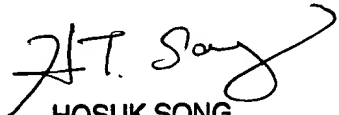
A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Paula W. Klimach whose telephone number is (571) 272-3854. The examiner can normally be reached on Mon to Thr 9:30 a.m to 5:30 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kim Vu can be reached on (571) 272-3859. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

PWK
Friday, April 21, 2006


HOSUK SONG
PRIMARY EXAMINER